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A nonlinear finite element model of soft tissue indentation - group of 3 »

Y Liu, AE Kerdok, RD Howe - Second International Symposium on Medical Simulation (..., 2004 - Springer
 ... biological materials and solid polymers (**rubber**-like materials ... We have created a **FEM** with a hyperelastic ... 3.1 Creating and Validating the Finite Element Model ...
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CR Wagner, DP Perrin, RL Feller, RD Howe, O Clatz, ... - Robotics and Automation, 2005. Proceedings of the 2005 IEEE ..., 2005 - ieeexplore.ieee.org
 ... **E FEM E** ... Fig. 2. Finite element models ... simulating a homogeneous compliant material [12] and simulating a rigid lump under a fixed stiffness **rubber** [4]. While ...
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 ... throttle angle and the engine **lookup-table** for accelerating ... load direction of rotation
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KJ Tseng, GH Chen - Power Electronics, IEEE Transactions on, 1997 - ieeexplore.ieee.org
 ... mechanically suited for fitting with a **rubber** tire and ... it is necessary to use **FEM** to investigate ... The finite-element simulation studies have been invaluable in ...
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 ... A similar **analysis** applies to tactile display devices, see [11 ... we used a real time **finite element** modeling package ... 2 mm thick piece of silicone **rubber** (HSII RTV ...
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A Nosratinia - IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO ..., 2001 - ieeexplore.ieee.org
 ... 10] used a **finite-element** approach to ... The best **rubber** sheet in most cases is rigid close to the ... COMPUTATIONAL ISSUES This section presents an **analysis** of the ...
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MJ Thoresson - 2003 - upetd.up.ac.za

... 16 2.11 **Finite** difference **gradient** approximation methods DFP Davidon-Fletcher-

Powell FEM **Finite Element** Method ffd Forward **Finite** Difference ...

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G Jin, MK Sain, BF Spencer Jr - IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY, 2005 -

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... To construct a **finite** dictionary, appropriate range for the ... the residue vector by
and its th **element** by , ... passive dampers such as lead-**rubber** bearings, friction ...

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J Mackerle - Engineering Computations, 1997 - emeraldinsight.com

... concrete; prestressed concrete; steel; **rubber**; polymer; thermoplastic ... J., High order

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Z Pantic-Tanner, JS Savage, DR Tanner, AF Peterson - IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, 1998 - ieeexplore.ieee.org
 ... function as the **gradient** of a linear combination ... at least four significant digits after **eigensolution**. ... in the full-wave **finite element solution** of waveguiding ...
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An Iterative Approach to the Finite-Element Method in Field Problems

W Kinsner, E Della Torre - Microwave Theory and Techniques, IEEE Transactions on, 1974 - ieeexplore.ieee.org
 ... iterative method for the complete **eigensolution** shall be ... where V_i is the component of the **gradient** in the i direction ($i = Z, Y$), and A_j is the area of the ...
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 ... The boundary integral equation in terms of pressure P and pressure **gradient** $Q = \frac{aP}{an}$ can be written as (1) $c c a P_i(\cdot) + J P Q^* dT(x) = J P^* Q dT(x) r r$...
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 ... Law, KH A parallel **finite element solution** method, Computers ... Parallelizing conjugate

gradient for finite element analysis ... and Morel, M. **Eigensolution** of finite ...

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T Hwang, ID Parsons - Computational Mechanics, 1992 - Springer

... of this explicit multigrid method to solve for the first **eigensolution** (2,9 ... method

used in this study is the preconditioned conjugate **gradient** method described ...

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A MULTIGRID METHOD FOR THE SOLUTION OF THE GENERALIZED EIGENVALUE PROBLEM

ID Parsons - pdf.aiaa.org

... was applied to the **finite element solution** of linear ... respectively, and (A, #) is

the required **eigensolution**. ... preconditioned conjugate **gradient** method will be ...

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